

# Converting Colors

$Y_{xy}(30.1694, 0.5592, 0.3912)$

Have a look what the booklet for  
Yxy(30.1694, 0.5592, 0.3912)  
contains.

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# **Color**

**Yxy(30.1595, 0.5589, 0.3913)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F56C0A
RGB	245, 108, 10
RGB Percent	96%, 42%, 4%
CMY	0.0392, 0.5765, 0.9607
CMYK	0.00, 0.56, 0.96, 0.04
HSL	25°, 92%, 50%
HSV	25°, 96%, 96%
XYZ	43.0773, 30.1595, 3.8383
YIQ	137.7910, 113.1100, -1.4340

# Conversions

## Conversions Part 2

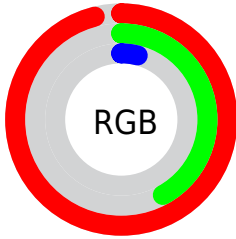
Format	Color
R <sub>Y</sub> B	245, 178, 10
Decimal	16083978
CIE Lab	61.79, 48.76, 68.55
CIE LCh	62, 84.118, 54.575
Yxy	30.1595, 0.5589, 0.3913
Android (android.graphics.Color)	4294274058 (0xFFFF56C0A)
YUV	137.7910, -63.0010, 94.0223
Hunter-Lab	54.9177, 43.9091, 34.2984

# Details

The Yxy color **30.1595, 0.5589, 0.3913** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **27.5356, 0.1867, 0.1901**, and the grayscale version is **25.5452, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.5817, 0.4793, 0.4119**, and **12.4621, 0.5963, 0.3647** is the 20% darker color. If you saturate the color by 10%, you get **28.9485, 0.5678, 0.3874**, and if you desaturate by 10%, it is **33.5218, 0.5343, 0.3985**.

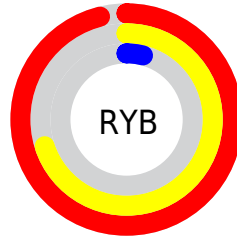
# Distribution



Red (96%)

Green (42%)

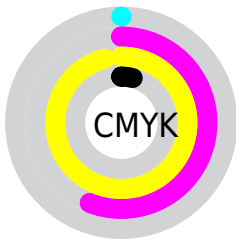
Blue (4%)



Red (96%)

Yellow (70%)

Blue (4%)

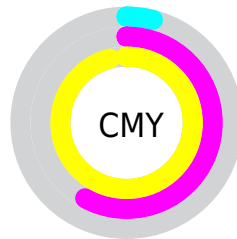


Cyan (0%)

Magenta (56%)

Yellow (96%)

Black (4%)



Cyan (4%)

Magenta (58%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.1595, 0.5589, 0.3913 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 30.1595, 0.5589, 0.3913 by changing the saturation by 10% instead.




 30.1595, 0.5589,  
0.3913


 30.1595, 0.5589,  
0.3913


302.6472, 0.4379,  
0.3788


 19.9597, 0.5837,  
0.3865


 59.9143, 0.5181,  
0.3925


 12.3657, 0.6144,  
0.3781


 80.2381, 0.5016,  
0.3912

 6.9933, 0.6426,  
0.3574


 104.7054, 0.4873,  
0.3894

 3.4579, 0.6758,  
0.3242

 133.7005, 0.4748,  
0.3873

 1.3752, 0.7258,  
0.2742

 167.6078, 0.4638,  
0.3851

 0.1983, 0.8833,  
0.1167

 206.8118, 0.4541,


 0.0000, 1.0000,


0.3830


0.0000


 251.6968, 0.4456,  
0.3809

 0.0000, 0.0000,  
0.0000


 30.1595, 0.5589,  
0.3913

 30.1595, 0.5589,  
0.3913


 28.9485, 0.5678,  
0.3874

 33.5218, 0.5343,  
0.3985

 37.4995, 0.5051,  
0.4001

 42.1335, 0.4735,  
0.3968

 47.4585, 0.4420,  
0.3896

 53.5059, 0.4122,  
0.3799

60.3048, 0.3852,  
0.3688

67.8825, 0.3611,  
0.3573

76.2647, 0.3402,  
0.3460

85.4759, 0.3222,  
0.3351

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



30.1595, 0.5501, 0.3125



30.1595, 0.5589, 0.3913



30.1595, 0.4909, 0.4814

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



30.1595, 0.5589, 0.3913



30.1595, 0.1739, 0.4333



30.1595, 0.1970, 0.1539

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



30.1595, 0.5589, 0.3913



27.5356, 0.1867, 0.1901

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



30.1595, 0.1350, 0.1526



30.1595, 0.5589, 0.3913



30.1595, 0.1208, 0.2763

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



30.1595, 0.5589, 0.3913



30.1595, 0.2720, 0.5684



30.1595, 0.1109, 0.1869



30.1595, 0.3063, 0.1845



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



30.1595, 0.5589, 0.3913



30.1595, 0.4230, 0.5412



30.1595, 0.1109, 0.1869



30.1595, 0.1715, 0.1501

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



30.1612, 0.5589, 0.3913



71.6267, 0.3684, 0.3609



21.7420, 0.4562, 0.2304



14.5742, 0.3787, 0.3659



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



30.1612, 0.5589, 0.3913



31.6343, 0.5681, 0.3871



73.5203, 0.4336, 0.4923



17.6177, 0.3283, 0.3389



15.8520, 0.5649, 0.3896



1.5913, 0.5425, 0.4074



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



27.5356, 0.1867, 0.1901



28.6136, 0.1843, 0.1834



7.5664, 0.1529, 0.0678



17.5322, 0.2980, 0.3189



14.3901, 0.1851, 0.1863



1.4675, 0.1905, 0.2059



# Previews

## White Background



This preview shows how the Yxy color 30.1595, 0.5589, 0.3913 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.1595, 0.5589, 0.3913 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 30.1595, 0.5589, 0.3913**

## Background



This preview shows how black text looks on a background with the Yxy color 30.1595, 0.5589, 0.3913.



This preview shows how white text looks on a background with the Yxy color 30.1595, 0.5589, 0.3913.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

30.1595, 0.5589, 0.3913

### Protanopia

30.3179, 0.4350, 0.4806

### Deuteranopia

30.1648, 0.4715, 0.4639



## Tritanopia

30.3254, 0.4912, 0.3237

# Trichromacy



## Original Color

30.1595, 0.5589, 0.3913

## Protanomaly

29.2488, 0.4843, 0.4452

## Deuteranomaly

29.5293, 0.5056, 0.4353

## Tritanomaly

30.1427, 0.5281, 0.3579

# Monochromacy



## Original Color

30.1595, 0.5589, 0.3913

## Achromatopsia

25.4152, 0.3127, 0.3290

## Achromatomaly

25.2812, 0.4170, 0.3818

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.1595, 0.5589, 0.3913 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(245, 108, 10)` looks like.

```
.text, #text, p{  
    color:rgb(245, 108, 10)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(245, 108, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 108, 10) }
```

## Border

The CSS property to change the border of an element to Yxy 30.1595, 0.5589, 0.3913 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(245, 108, 10) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(245, 108, 10) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(245, 108, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 108, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 108, 10);  
box-shadow:4px 4px 4px 4px rgb(245, 108,  
10) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.1595, 0.5589, 0.3913 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 108, 10) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(245,  
108, 10) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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